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I hereby certify that, on the date indicated above, this paper or fee was deposited with the U.S. Postal Service & that it was addressed for delivery to Mail Stop Non-Fee Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 by "Express Mail Post Office to Addressee" service.

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Signature \_\_\_\_\_



07278

PATENT TRADEMARK OFFICE

Docket No: 01776/1200580-US1

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Masaru Kobayashi

Serial No. 10/728,281

Art Unit: 3681

Confirmation No.: 7139

Filed: December 3, 2003

Examiner: Tisha Lewis

For: **LIGHTWEIGHT BEARING AND WAVE GEAR DRIVE**

**PETITION TO CORRECT INVENTORSHIP PURSUANT TO 37 C.F.R. §1.48(A)**

01/24/2005 HMEKONEN 00000018 10728281

January 13, 2005

02 FC:1464

130.00 DP

Commissioner of Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

It is respectfully requested that the inventorship of this application be amended by inserting Rolf Slatter as an inventor: A statement by Rolf Slatter indicating that the inventorship error occurred without deceptive intent on his part is enclosed.

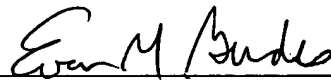
Additionally, a revised Declaration and Power of Attorney for Patent Application and an Assignment of the subject matter of the patent application to the Assignee are enclosed.

{W:\01776\1200580us1\00340780.DOC 100340780 } 1

It is respectfully requested that the Patent and Trademark Office amend the inventorship of this application by inserting the name of Rolf Slatter as a co-inventor. The written Assent of the Assignee of this application is included herewith along with payment of the petition fee as set forth in §1.17(i)

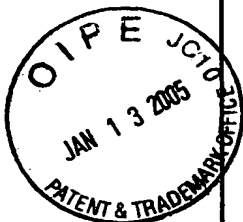
Date: January 13, 2005

Respectfully submitted,



Evan M. Bundis  
Reg. No. 46,587  
Attorney for Applicants

DARBY & DARBY, P.C.  
Post Office Box 5257  
New York, N.Y. 10150-5257  
Phone (212) 527-7700

**Declaration and Power of Attorney for Patent Application****Erklärung für Patentanmeldungen mit Vollmacht****German Language Declaration**

Als nachstehend benannter Erfinder erkläre ich hiermit an Eides Statt:

daß mein Wohnsitz, meine Postanschrift und meine Staatsangehörigkeit den im nachstehenden nach meinem Namen aufgeführten Angaben entsprechen, daß ich nach bestem Wissen der ursprüngliche, erste und alleinige Erfinder (falls nachstehend nur ein Name angegeben ist) oder ein ursprünglicher, erster und Miterfinder (falls nachstehend mehrere Namen aufgeführt sind) des Gegenstandes bin, für den dieser Antrag gestellt wird und für den ein Patent für die Erfindung mit folgendem Titel beantragt wird:

LIGHTWEIGHT BEARING AND WAVE GEAR DRIVE

deren Beschreibung hier beigelegt ist, es sei denn (in diesem Falle Zutreffendes bitte ankreuzen), diese Erfindung

☒ wurde angemeldet am 12/03/2003  
unter der US-Anmeldenummer oder unter der  
Internationalen Anmeldenummer im Rahmen des  
Vertrags über die Zusammenarbeit auf dem Gebiet  
des Patentwesens (PCT)  
10/728,281 und am  
abgeändert (falls  
zutreffend)

Ich bestätige hiermit, daß ich den Inhalt der oben angegebenen Patentanmeldung, einschließlich der Ansprüche, die eventuell durch einen oben erwähnten Zusatzantrag abgeändert wurde, durchgesehen und verstanden habe.

Ich erkenne meine Pflicht zur Offenbarung jeglicher Informationen an, die zur Prüfung der Patentfähigkeit in Einklang mit Titel 37, Code of Federal Regulations, § 1.56 von Belang sind.

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

LIGHTWEIGHT BEARING AND WAVE GEAR DRIVE

the specification of which is attached hereto unless the following box is checked:

☒ was filed on 12/03/2003  
as United States Application Number or  
PCT International Application Number  
10/728,281 and was amended on  
(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## German Language Declaration

Ich beanspruche hiermit ausländische Prioritätsvorteile gemäß Title 35, US-Code, § 119 (a)-(d), bzw. § 365(b) aller unten aufgeführten Auslandsanmeldungen für Patente oder Erfinderurkunden, oder § 365(a) aller PCT internationalen Anmeldungen, welche wenigstens ein Land ausser den Vereinigten Staaten von Amerika benennen, und habe nachstehend durch ankreuzen sämtliche Auslandsanmeldungen für Patente bzw. Erfinderurkunden oder PCT internationale Anmeldungen angegeben, deren Anmeldetag dem der Anmeldung, für welche Priorität beansprucht wird, vorangeht.

I hereby claim foreign priority under Title 35, United States Code Section 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365 (a) of any PCT International application which designated at least one country other than the United States listed below and have also identified below, by checking the box, any foreign application for patent, or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)  
(Frühere ausländische Anmeldungen)

Priority Not Claimed  
Priorität nicht beansprucht

2001-151833	Japan	22/05/2001	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	
(Nummer)	(Land)	(Tag/Monat/Jahr der Anmeldung)	
(Number)	(Country)	(Day/Month/Year Filed)	<input type="checkbox"/>
(Nummer)	(Land)	(Tag/Monat/Jahr der Anmeldung)	

Ich beanspruche hiermit Prioritätsvorteile unter Title 35, US-Code, § 119(e) aller US-Hilfsanmeldungen wie unten aufgezählt.

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

(Application No.)	(Filing Date)
(Aktenzeichen)	(Anmeldetag)
(Application No.)	(Filing Date)
(Aktenzeichen)	(Anmeldetag)

Ich beanspruche hiermit die mir unter Title 35, US-Code, § 120 zustehenden Vorteile aller unten aufgeführten US-Patentanmeldungen bzw. § 365(c) aller PCT internationalen Anmeldungen, welche die Vereinigten Staaten von Amerika benennen, und erkenne, insofern der Gegenstand eines jeden früheren Anspruchs dieser Patentanmeldung nicht in einer US-Patentanmeldung, bzw. PCT internationalen Anmeldung in in einer gemäß dem ersten Absatz von Title 35, US-Code, § 112 vorgeschriebenen Art und Weise offenbart wurde, meine Pflicht zur Offenbarung jeglicher Informationen an, die zur Prüfung der Patentfähigkeit in Einklang mit Title 37, Code of Federal Regulations, § 1.56 von Bekang sind und die im Zeitraum zwischen dem Anmeldetag der früheren Patentanmeldung und dem nationalen oder im Rahmen des Vertrags über die Zusammenarbeit auf dem Gebiet des Patentwesens (PCT) gültigen internationalen Anmeldetags bekannt geworden sind.

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

10/150,962	21/05/2002	Abandoned
(Application No.)	(Filing Date)	(Status) (patented, pending, abandoned)
(Aktenzeichen)	(Anmeldetag)	(Status) ( patentiert, schwebend, aufgegeben)
(Application No.)	(Filing Date)	(Status) (patented, pending, abandoned)
(Aktenzeichen)	(Anmeldetag)	(Status) ( patentiert, schwebend, aufgegeben)

Ich erkläre hiermit, daß alle in der vorliegenden Erklärung von mir gemachten Angaben nach bestem Wissen und Gewissen der Wahrheit entsprechen, und ferner daß ich diese eidesstattliche Erklärung in Kenntnis dessen ablege, daß wissentlich und vorsätzlich falsche Angaben oder dergleichen gemäß § 1001, Title 18 des US-Code strafbar sind und mit Geldstrafe und/oder Gefängnis bestraft werden können und daß derartige wissentlich und vorsätzlich falsche Angaben die Rechtswirksamkeit der vorliegenden Patentanmeldung oder eines aufgrund deren erteilten Patentes gefährden können.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application of any patent issued thereon.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

### German Language Declaration

VERTRETUNGSVOLMACHT: Als benannter Erfinder beauftrage ich hiermit den (die) nachstehend aufgeführten Patentanwalt (Patentanwälte) und/oder Vertreter mit der Verfolgung der vorliegenden Patentanmeldung sowie mit der Abwicklung aller damit verbundenen Angelegenheiten vor dem US-Patent- und Markenamt: (Name(n) und Registrationsnummer(n) auflisten)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: (list name and registration number).

Attorneys associated with Customer Number 07278:

Peter C. Schechter, 31,662  
Postanschrift:  
DARBY & DARBY P.C.  
P.O. Box 5257  
New York, New York 10150-5257

Peter C. Schechter, 31,662  
Send Correspondence to:  
DARBY & DARBY P.C.  
P.O. Box 5257  
New York, New York 10150-5257

Telefonische Auskünfte: (Name und Telefonnummer)

Direct Telephone Calls to: (name and telephone number)

Peter C. Schechter, (212) 527-7723 (facsimile:  
(212) 753-6237)

Peter C. Schechter, (212) 527-7723 (facsimile:  
(212) 753-6237)

Vor- und Zuname des einzigen oder ersten Erfinders Masaru Kobayashi	Full name of sole or first inventor Masaru Kobayashi
Unterschrift des Erfinders Datum	Inventor's signature Date Masaru Kobayashi March 8, 2004
Wohnsitz Minamiazumi-gun, Nagano-ken, Japan	Residence Minamiazumi-gun, Nagano-ken, Japan
Staatsangehörigkeit Japan	Citizenship Japan
Postanschrift c/o Harmonic Drive Systems Inc., Hotaka-kojo 1856-1 Oaza Maki, Hotaka-machi Minamiazumi-gun Nagano-ken 399-8305; JAPAN	Post Office Address c/o Harmonic Drive Systems Inc., Hotaka-kojo 1856-1 Oaza Maki, Hotaka-machi Minamiazumi-gun Nagano-ken 399-8305; JAPAN

Vor- und Zuname des zweiten Miterfinders (falls zutreffend) Rolf Slatter	Full name of second joint inventor, if any Rolf Slatter
Unterschrift des zweiten Erfinders Datum	Second inventor's signature Date Rolf Slatter March 18 <sup>th</sup> 2004
Wohnsitz Lahn, Germany	Residence Lahn, Germany
Staatsangehörigkeit Germany	Citizenship Germany
Postanschrift c/o Harmonic Drive Aktiengesellschaft Hoenbergstraze 14. D-65555 Limburg a.d. Lahn; GERMANY	Post Office Address c/o Harmonic Drive Aktiengesellschaft Hoenbergstraze 14. D-65555 Limburg a.d. Lahn; GERMANY

(Im Falle dritter und weiterer Miterfinder sind die entsprechenden Informationen und Unterschriften hinzuzufügen.)

(Supply similar information and signature for third and subsequent joint inventors.)

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

## Declaration and Power of Attorney for Patent Application

## 特許出願宣言書及び委任状

## Japanese Language Declaration

## 日本語宣言書

私は、以下に記名された発明者として、ここに下記の通り宣言する：

As a below named inventor, I hereby declare that:

私の住所、郵便の宛先そして国籍は、私の氏名の後に記載された通りである。

My residence, post office address, and citizenship are as stated next to my name.

下記の名称の発明について、特許請求範囲に記載され、且つ特許が求められている発明主題に関して、私は、最初、最先且つ唯一の発明者である（唯一の氏名が記載されている場合）か、或いは最初、最先且つ共同発明者である（複数の氏名が記載されている場合）と信じている。

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

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LIGHTWEIGHT BEARING AND WAVE GEAR DRIVE

上記発明の明細書はここに添付されているが、下記の箱がチェックされている場合は、この限りでない：

the specification of which is attached hereto unless the following box is checked:

☒ 12/03/2003 の日に出願され、☒ was filed on 12/03/2003

この出願の米国出願番号またはPCT国際出願番号は、

as United States Application Number or

PCT International Application Number

10/728,281 であり、且つ

10/728,281 and was amended on

(if applicable).

の口に修正された出願（該当する場合）

私は、上記の修正欄によって修正された、特許請求範囲を含む上記明細書を検討し、且つ内容を理解していることをここに表明する。

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

私は、連邦規則法典第37編規則1.56に定義されている、特許性について重要な情報を開示する義務があることを認める。

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

## Japanese Language Declaration

(日本語宣言書)

私は、ここに、以下に記載した外国での特許出願または発明者証の出願、或いは米国以外の少なくとも一國を指定している米国法典第35編第365条(a)によるPCT国際出願について、同第119条(a)(4)項又は第365条(a)項に基づいて優先権を主張するとともに、優先権を主張する本出願の出願日より前の出願日を有する外国での特許出願または発明者証の出願、或いはPCT国際出願については、いかなる出願も、下記の内容内をチェックすることにより示した。

I hereby claim foreign priority under Title 35, United States Code Section 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365 (a) of any PCT International application which designated at least one country other than the United States listed below and have also identified below, by checking the box, any foreign application for patent, or inventor's certificate, or PCT International application having a filing date before that of the application for which priority is claimed.

## Prior Foreign Application(s)

Priority Not Claimed

優先権を主張なし

外国での先行出願

2001-151833 (Number) (番号)	Japan (Country) (国名)	22/05/2001 (Day/Month/Year Filed) (出願日/月/年)	<input type="checkbox"/>
_____ (Number) (番号)	_____ (Country) (国名)	_____ (Day/Month/Year Filed) (出願日/月/年)	<input type="checkbox"/>

私は、ここに、下記のいかなる米国優先特許出願についても、その米国法典第35編119条(e)項の利益を主張する。

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

_____ (Application No.) (出願番号)	_____ (Filing Date) (出願日)
_____ (Application No.) (出願番号)	_____ (Filing Date) (出願日)

私は、ここに、下記のいかなる米国出願についても、その米国法典第35編第120条に基づく利益を主張し、又米国を指定するいかなるPCT国際出願についても、その同第365条(c)に基づく利益を主張する。また、本出願の特許請求の範囲の主題が、米国法典第35編第112条第1段に規定された態様で、先行する米国出願又はPCT国際出願に開示されていない場合においては、その先行出願の出願日と本国内出願日またはPCT国際出願日との間の期間中に入手された情報で、差違説明規則第37編規則1.56に定義された特許性に関わる重要な情報について開示義務があることを承認する。

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

10/150,962 (Application No.) (出願番号)	21/05/2002 (Filing Date) (出願日)	Abandoned (Status Patented, Pending, Abandoned) (現況: 特許許可、係属中、放棄)
_____ (Application No.) (出願番号)	_____ (Filing Date) (出願日)	_____ (Status Patented, Pending, Abandoned) (現況: 特許許可、係属中、放棄)

私は、ここに表明された私自身の知識に係わる陳述が真実であり、且つ情報と信ずることに基づく陳述が、真実であると信じられることを宣言し、さらに、故意に虚偽の陳述などを行った場合は、米国法典第18編第1001条に基づき、罰金または拘禁、若しくはその両方により処罰され、またそのような故意による虚偽の陳述は、本出願またはそれに対して発行されるいかなる特許も、その有効性に問題を生ずることを理解した上で陳述が行われたことを、ここに宣言する。

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

(日本語宜言書)

委任状：私は本出版を審査する手続を行い、且つ米国防許商標庁との全ての業務を遂行するために、記名された発明者として、下記の有識士及び／または有識士を任命する。（氏名及び登録番号を記載すること）

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: *(list name and registration number)*.

**Practitioners associated with Customer Number 07278:**

來付送驗

**DARBY & DARBY P.C.**  
P.O. Box 5257  
New York, New York 10150-5257

**Send Correspondence to:**

**DARBY & DARBY P.C.**  
P.O. Box 5257  
New York, New York 10150-5257

直通電話連絡先：（氏名及び電話番号）

**Peter C. Schechter, (212) 527-7723**

**Direct Telephone Calls to:** *(name and telephone number)*

**Peter C. Schechter, (212) 527-7723**

(第三以下の共同発明者についても同様に記載し、署名を  
すること)

(Supply similar information and signature for third and subsequent joint inventors.)



EXPRESS MAIL CERTIFICATE

Date \_\_\_\_\_ Label No. \_\_\_\_\_

I hereby certify that, on the date indicated above, this paper or fee was deposited with the U.S. Postal Service & that it was addressed for delivery to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 by "Express Mail Post Office to Addressee" service.

PLEASE CHARGE ANY DEFICIENCY UP TO \$300.00 OR  
CREDIT ANY EXCESS IN THE FEES DUE WITH THIS  
DOCUMENT TO OUR DEPOSIT ACCOUNT NO. 04-0100



Name (Print) \_\_\_\_\_

Signature \_\_\_\_\_

Customer No.: 07278

Docket No. 01776/1200580-US1

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

Masaru KOBAYASHI; Rolf SLATTER

Serial No.: 10/728,281

Filed: December 3, 2003

For: LIGHTWEIGHT BEARING AND WAVE GEAR DRIVE

**STATEMENT OF ROLF SLATTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22314-1450

Sir:

Rolf Slatter, being added as an inventor in this application, declares that:

I am being added as an inventor in the subject application 10/728,281. I hereby state this error in inventorship occurred without deceptive intent on my part.

I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under

Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: August 19, 2004

  
\_\_\_\_\_  
Rolf Slatter

ASSENT OF ASSIGNEE

Harmonic Drive Aktiengesellschaft, assignee of the entire right, title and interest in and to the above-identified application and the invention described therein, hereby assents or consents to the addition of the inventor Rolf Slatter.

Dated August 19, 2004



---

Printed Name: Reinhard Ernst  
Title: President